

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) Device for scanning a yarn (2) that is moved in its longitudinal direction in a measuring gap (1) with a light beam (3) from a light source, which device has comprising a receiver (5, 6) for light reflected at the yarn, and a unit (9) for processing electrical signals from the receiver, characterised in that and a single light source (4) is provided for emitting light in at least two wavelength regions (29, 30), the wavelength regions being determined by two main wavelengths, (32, 33) and the said unit (9) for processing electrical signals from the receiver ~~for received light having~~ including a computer which forms a vector (44, 45, 46) from the values for each of the at least two specified wavelength regions and forms a sum vector (47) from the vectors.

2. (Currently Amended) Device according to claim 1, characterised in that wherein the main wavelengths determine two colours in the region of wavelengths of visible light.

3. (Currently Amended) Device according to claim 2, characterised in that wherein the main wavelengths relate to the colours red, green and blue.

4. (Currently Amended) Device according to claim 1, characterised in that wherein the single light source (4) is in the form of a light-emitting diode which is able separately to emit visible light in three colours in the visible range.

5. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein the single light source and a receiver {6} have principal axes {11, 12} for the emission and reception of light which together span a plane that is transverse to the longitudinal direction of the yarn.

6. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein for the end point {51} of the sum vector {47} in a space {42} a region {48, 49, 50} is delimited which indicates whether the electrical signal from the receiver processed to form the sum vector indicates a foreign body in the yarn.

7. (Currently Amended) Device according to claim 6, ~~characterised in that~~ wherein the space {42} forms a cube which is formed by axes {52, 53, 54} along which values for the intensity of three main wavelengths are plotted.